Abstract of the Disclosure

Provided are a video encoding/decoding method, in which a motion between interlaced video frames is estimated and/or compensated, and a video encoding/decoding apparatus. In this method, first, a macroblock and a search range are received, and a frame motion vector for each integer pixel is estimated. Next, if the vertical component of the estimated frame motion vector is an odd value, the bottom field pixels in the received macroblock are matched with top field pixels in a reference frame that correspond to motion vectors obtained by scaling the vertical component of the original motion vectors depending on a field-to-field distance. If the vertical component of the original frame motion vector is an even value, the top or bottom field pixels in the received macroblock are matched with the top or bottom field pixels in the reference frame that correspond to the original frame motion vector.